PATENT COOPERATION TREATY



PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

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INTERNA	TIONAL PRELIMINARY EXAMIN	ATION REPORT
	(PCT Article 36 and Rule 70)	
Applicant's or agent's file reference WA 2984-02WO	FOR FURTHER ACTION See Notified Preliminary	ication of Transmittal of Interna Examination Report (Form PCT/IPEA
International application No. PCT/EP2003/014621	International filing date (day/month/year) 19 December 2003 (19.12.2003)	Priority date (day/month/year) 02 January 2003 (02.01.200
International Patent Classification (IPC) of F03D 1/06	or national classification and IPC	
Applicant	WOBBEN, Aloys	
amended and are the basi 70.16 and Section 607 of These annexes consist	ment of opinion with regard to novelty, inventive of invention ment under Article 35(2) with regard to novelty, explanations supporting such statement	step and industrial applicability
Date of submission of the demand	Date of completion	on of this report
10 July 2004 (10.	.07.2004)	01 April 2005 (01.04.2005)
Name and mailing address of the IPEA	A/EP Authorized office	er

International application No.

PCT/EP2003/014621

I. Basi	s of the report		
1. Wit	h regard to the	elements of the international application:*	ļ
	the internation	onal application as originally filed	
\boxtimes	the descripti	on:	
<u></u>	pages	1-11	, as originally filed
	pages		, filed with the demand
•	pages	, filed with the letter of	
X	the claims:		
	pages	2-29	, as originally filed
	pages	, as amended (together	with any statement under Article 19
	pages		, filed with the demand
	pages	1 , filed with the letter of _	16 March 2005 (16.03.2005)
\boxtimes	the drawing		
	<u>, </u>	1/5-5/5	, as originally filed
	pages		, filed with the demand
	pages	, filed with the letter of	
Г	the sequence	listing part of the description:	
_	.	moning pair or and accorpanie	, as originally filed
	pages		, filed with the demand
	pages	, filed with the letter of	
the Ti	the language the language or 55.3). With regard to eliminary exame contained filed togeth furnished so the states internation. The states been furnished so the states internation.	ge of a translation furnished for the purposes of international search (under Rige of publication of the international application (under Rule 48.3(b)). It is go of the translation furnished for the purposes of international preliminar any nucleotide and/or amino acid sequence disclosed in the international was carried out on the basis of the sequence listing: in the international application in written form. There with the international application in computer readable form, subsequently to this Authority in written form. Subsequently to this Authority in computer readable form, ment that the subsequently furnished written sequence listing does not all application as filed has been furnished. The purposes of international search (under Rule 48.3(b)).	which is: Aule 23.1(b)). The examination (under Rule 55.2 and/ ational application, the international of the control of the disclosure in the control of
ir	the the the This report beyond the this report at this report at	dments have resulted in the cancellation of: description, pages	itation under Article 14 are referred to
	nd 70.17). ny replacement	sheet containing such amendments must be referred to under item 1 and an	nexed to this report.

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II. Non-	establishment of opinion with regard to novelty, inventive step and industrial applicability
1. The condust	questions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be rially applicable have not been examined in respect of:
	the entire international application.
\boxtimes	claims Nos
becau	se:
	the said international application, or the said claims Nos
\boxtimes	the description, claims or drawings (indicate particular elements below) or said claims Nos. 2-16, 29 are so unclear that no meaningful opinion could be formed (specify):
	the claims, or said claims Nos are so inadequately supported by the description that no meaningful opinion could be formed.
	no international search report has been established for said claims Nos
2. A m	eaningful international preliminary examination cannot be carried out due to the failure of the nucleotide and/or amino acid nence listing to comply with the standard provided for in Annex C of the Administrative Instructions:
	the written form has not been furnished or does not comply with the standard.
	the computer readable form has not been furnished or does not comply with the standard.

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7.	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;
	citations and explanations supporting such statement

Statement			
Novelty (N)	Claims	1, 18-28	YES
,	Claims		NO
Inventive step (IS)	Claims	1, 18-28	YES
mventive step (10)	Claims		NO
Industrial applicability (IA)	Claims	1, 18-28	YES
	Claims		NO

2. Citations and explanations

The invention relates to a rotor blade tip according to the preamble of claim 1.

Such rotor blade tips are known, for example, from US-A-4 324 530.

The problem addressed by the present invention consists in developing a generic rotor blade tip such that it has a tip edge optimized to minimize marginal vortex.

This problem is solved by the features of the invention according to claim 1, namely that the leading edge and the trailing edge of the blade tip describe a preset, preferably elliptical, curve in a virtually laterally reversed manner in the direction of the upper surface of the blade tip while at the same time the upper surface of the blade tip is curved away from the rotor blade suction side (that is, curved towards the pressure side away from the plane of the rotor blade.

Thus, the blade length from which the airflow is detached is increased, leading to reduced noise emission.

These features are not shown by the available prior art.

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The subject matter of claim 1 is therefore novel and involves an inventive step.

Dependent claims 18-26 (see observations) represent further embodiments of the rotor blade tip according to claim 1.

Claims 27 and 28 each claim a rotor blade with a rotor blade tip according to claim 1 (see observations).

Observations

Claims 2-15 and 16 relate to a rotor blade according to the original claim 1. These claims are therefore unclear.

The back reference in each of claims 18-28 has not been brought into line with the new claim 1.

Claim 29 is worded unclearly and it is consequently not clear which features are contained by this claim.